

IN THE CLAIMS:

Kindly cancel claims 1-7, and add in lieu thereof the following new claims 8-11:

8. A CDMA (code division multiple access) communication system, comprising:

first transmitter means for multiplying a plurality of orthogonal codes by a first pseudo-random noise code to obtain a plurality of first spreading codes and for employing the first spreading codes to spread information;

second transmitter means for multiplying the orthogonal codes by a second pseudo-random noise code to obtain a plurality of second spreading codes and for employing the second spreading codes to spread information, the second pseudo-random noise code being substantially the same as the first pseudo-random noise code except for a phase difference;

first receiver means which includes means for recovering the information by despreading the information with one of the first spreading codes; and

second receiver means which includes means for recovering information by despreading the information with one of the second spreading codes.

9. A CDMA (code division multiple access) communication method, comprising the steps of:

(a) multiplying a plurality of orthogonal codes by a first pseudo-random noise code to obtain a plurality of first spreading codes;

(b) employing the first spreading codes to spread information prior to transmission thereof;

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(c) multiplying the orthogonal codes by a second pseudo-random noise code to obtain a plurality of second spreading codes;

(d) employing the second spreading codes to spread information prior to transmission thereof;

(e) recovering received information by despreading it with one of the first spreading codes; and

(f) recovering received information by despreading it with one of the second spreading codes.

10. A method for use in a CDMA (code division multiple access) communication system for transmitting information, said method comprising the steps of:

(a) multiplying a code selected from a set of orthogonal codes by another code to obtain a spreading code; and

(b) using, as the code in step (a), a predetermined pseudo-random noise code or the pseudo-random noise code shifted in phase.

11. A CDMA (code division multiple access) transmitter for transmitting information, said transmitter comprising:

(a) spreading means for spreading the information; and

(b) multiplying means for multiplying a code selected from a set of orthogonal codes by a pseudo-random noise code or the pseudo-random noise code shifted in phase.